Test Report
Consistency test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo 02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	20-Jul-2019
Test Date	29-Jul-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	18	17	10	6	5.5

Results: Standard Consistency of Cement: 30.50%

Note:

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Project Management Services

Test Report
Consistency test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	2
Sample Collected Date	25-Jul-2019
Date	3-Aug-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29	29.5	30
3	Weight of Water (gm)	108	114	116	118	120
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	16	17.5	11.5	7	6

Results: Standard Consistency of Cement: 30.50%

Note:

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GSTIN: 29AYHPN8663P1ZA
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Project Management Services

Test Report
Fineness test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Material	Cement
Sample No	1
Sample Collected Date	20-Jul-2019
Test Date	29-Jul-2019

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	3.2	2.5
3	Percentage retained (%)	3.2	2.5
4	Average Percentage retained (%)	2.85	

Results: Residue of cement is: 2.9%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:

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Test Report
Fineness test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	2
Sample Collected Date	25-Jul-2019
Date	3-Aug-2019

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	3.8	3.5
3	Percentage retained (%)	3.8	3.5
4	Average Percentage retained (%)	3.65	

Results: Residue of cement is: 3.35%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:

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Test Report
Soundness test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	2
Sample Collected Date	25-Jul-2019
Date	3-Aug-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	10	11	10
2	Final Distance between the indicator points of Lechatelier mould	12	13	12
3	Difference or expansion	2	2	2
4	Average Differences or Expansion in mm	2.00		

Results: Difference in Expansion of Cement: 2.67mm
Comments: Maximum allowable Expansion of cement is 10mm.

Note:

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Test Report
Gradation test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	2
Sample Collected Date	20-Jul-2019
Date	3-Aug-2019

Weight of Sample: 4000 gms							
Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	483	12.08	12.08	87.93	85-95	
3	19.00	315	7.88	19.95	80.05	68-88	
4	9.50	621	15.53	35.48	64.53	45-65	
5	4.75	405	10.13	45.60	54.40	30-55	
6	0.60	980	24.50	70.10	29.90	8-30	
7	0.15	829	20.73	90.83	9.18	5-15	
8	0.08	245	6.13	96.95	3.05	0-5	

Note:

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Test Report
Water absorption test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	20-Jul-2019
Test Date	29-Jul-2019

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in water	W_2g	2025	2022	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1264	1259	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2060	2047	
5	Weight of water equal to the Volume of the Aggregate	$W_3 - W_s$	796	788	
6	Weight of Oven dried Aggregate	W_4g	2021	2018	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.54	2.56	2.55
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.67	2.66	2.66
9	Water Absorption	$(W_4 - W_3) 100/W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report
Water absorption test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	2
Sample Collected Date	20-Jul-2019
Date	3-Aug-2019

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Immersed in Water	W_1 g	765	765	
2	Aggregates Immersed in water	W_2g	2012	2005	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1247	1240	
4	aggregate in Air	W_3 g	2047	2030	
5	Volume of the Aggregate	W_3- W_s	800	790	
6	Weight of Oven dried Aggregate	W_4g	2008	2001	
7	Specific Gravity	W_4/(W_3- W_s)	2.51	2.53	2.52
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.64	2.63	2.63
9	Water Absorption	(W_4- W_3)*100/ W_4	1.94	1.45	1.70

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

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QUALIEX CIVIL DESIGN & CONSULTANCY

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Test Report
Impact test

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	PCC(1:4:8)
Contractor	Sri. Dalithkumar
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Coarse aggregates
Sample No	1
Sample Collected Date	20-Jul-2019
Date	29-Jul-2019

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1301	1305
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	341	345
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	76	79
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	265	266
6	Aggregate Impact Value (w4 / w3)x100	%	22.29	22.90
7	Specified Limit	%	45.00	

Results: Average Aggregate Impact Value: **22.59** %

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Sample Collected	9-Aug-2019
Test Date	16-Aug-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	ve Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	6.81	150*150*150	2017.78	321	0.0225	14.27	14.04	14.14
2	25	7	6.85	150*150*150	2029.63	315	0.0225	14.00		
3	25	7	6.65	150*150*150	1970.37	312	0.0225	13.87		
4	25	7	7.02	150*150*150	2080.00	319	0.0225	14.18	14.24	
5	25	7	6.82	150*150*150	2020.74	320	0.0225	14.22		
6	25	7	6.79	150*150*150	2012.15	322	0.0225	14.31		

Results: 7-days Compressive strength of cement is 14.14 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	2
Sample Collected	9-Aug-2019
Test Date	16-Aug-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	ve Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.39	150*150*150	2189.63	372	0.0225	16.53	16.58	16.59
2	25	7	7.43	150*150*150	2201.48	377	0.0225	16.76		
3	25	7	7.29	150*150*150	2159.70	370	0.0225	16.44		
4	25	7	7.61	150*150*150	2254.81	374	0.0225	16.62	16.61	
5	25	7	7.42	150*150*150	2198.52	367	0.0225	16.31		
6	25	7	7.39	150*150*150	2189.93	380	0.0225	16.89		

Results: 7-days Compressive strength of cement is 16.59 N/mm2

Note:

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Project Management Services

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Lab No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	3
Sample Collected	14-Aug-2019
Test Date	21-Aug-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7.00	7.48	0	2216.30	374.00	0.0225	16.62	16.67	16.68
2	25	7.00	7.52	0	2228.15	379.00	0.0225	16.84		
3	25	7.00	7.38	0	2186.37	372.00	0.0225	16.53		
4	25	7.00	7.70	0	2281.48	376.00	0.0225	16.71	16.70	
5	25	7.00	7.51	0	2225.19	369.00	0.0225	16.40		
6	25	7.00	7.48	0	2216.59	382.00	0.0225	16.98		

Results: 7-days Compressive strength of cement is 16.68 N/mm2

Note:

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Project Management Services

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Lab No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	Concrete
Sample No	4
Sample Collected	14-Aug-2019
Test Date	21-Aug-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	ve Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	25	7	7.58	150*150*150	2245.93	376.00	0.0225	16.71	16.76	16.77
2	25	7	7.62	150*150*150	2257.78	381.00	0.0225	16.93		
3	25	7	7.48	150*150*150	2216.00	374.00	0.0225	16.62		
4	25	7	7.80	150*150*150	2311.11	378.00	0.0225	16.80	16.79	
5	25	7	7.61	150*150*150	2254.81	371.00	0.0225	16.49		
6	25	7	7.58	150*150*150	2246.22	384.00	0.0225	17.07		

Results: 7-days Compressive strength of cement is 16.77 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Ref No	QCDC/BBMP/YNK/PMC-06/2019-2020
Sample Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Sample Collected	9-Aug-2019
Test Date	6-Sep-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	25	28	8.61	150*150*150	2551.11	680.00	0.02	30.22	30.00	30.11
2	25	28	8.50	150*150*150	2518.52	675.00	0.02	30.00		
3	25	28	8.40	150*150*150	2488.89	670.00	0.02	29.78		
4	25	28	8.65	150*150*150	2562.96	680.00	0.02	30.22	30.22	
5	25	28	8.61	150*150*150	2551.11	650.00	0.02	28.89		
6	25	28	8.50	150*150*150	2518.52	710.00	0.02	31.56		

Results: 28-days Compressive strength of cement is 30.11 N/mm2

Note:

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For Qualiex Civil Design & Consultancy

Authorised Signature

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Concrete Compresive strength

ject Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
ent	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
k No	QCDC/BBMP/YNK/PMC-06/2019-2020
te Type	Concrete(M25)
ntractor	Sri. Dalithkumar
st Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
cation	Bay
terial	Concrete
mple No	3
mple Collected	9-Aug-2019
st Date	11-Sep-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	8.80	0	2607.41	684	0.0225	30.40	30.18	30.29
2	20	28	8.69	0	2574.81	679	0.0225	30.18		
3	20	28	8.59	0	2545.19	674	0.0225	29.96		
4	20	28	8.84	0	2619.26	684	0.0225	30.40	30.40	
5	20	28	8.80	0	2607.41	654	0.0225	29.07		
6	20	28	8.69	0	2574.81	714	0.0225	31.73		

Results: 28-days Compressive strength of cement is 30.29 N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services
GSTIN: 29AYHPN8663P1ZA

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Work No	QCDC/BBMP/YNK/PMC-06/2019-2020
Work Type	Concrete(M25)
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	4
Sample Collected	9-Aug-2019
Date	11-Sep-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	20	28	8.90	150*150*150	2637.04	686	0.0225	30.49	30.27	30.38
2	20	28	8.79	150*150*150	2604.44	681	0.0225	30.27		
3	20	28	8.69	150*150*150	2574.81	676	0.0225	30.04		
4	20	28	8.94	150*150*150	2648.89	686	0.0225	30.49	30.49	
5	20	28	8.90	150*150*150	2637.04	656	0.0225	29.16		
6	20	28	8.79	150*150*150	2604.44	716	0.0225	31.82		

Results: 28-days Compressive strength of cement is 30.38 N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC/06/2019-2020
Mix Type	M25 Concrete
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Precast Slab
Sample No	1
Sample Collected Date	14-Jun-2019
Test Date	21-Jun-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	15	7	6.78	150*150*150	2008.89	215	0.0225	9.56	9.54	9.63
2	15	7	6.95	150*150*150	2059.26	218	0.0225	9.69		
3	15	7	6.82	150*150*150	2020.74	211	0.0225	9.38		
4	15	7	7.15	150*150*150	2118.52	223	0.0225	9.91	9.72	
5	15	7	6.90	150*150*150	2044.44	228	0.0225	10.13		
6	15	7	6.82	150*150*150	2020.74	205	0.0225	9.11		

Results: 7-days Compressive strength of cement is 9.63 N/mm2

Note:

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QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Test Report
Concrete Compresive strength

Project Name	Improvements to Drains at Kamakshamma Layout in Ward NOo.02 of Yelahanka Sub Division
Client	The Asst. Executive Engineer, Yelahanka Sub Division, BBMP
Job No	QCDC/BBMP/YNK/PMC-06/2019-2020
Mix Type	M15 Concrete
Contractor	Sri. Dalithkumar
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Precast Slab
Sample No	1
Sample Collected Date	14-Jun-2019
Test Date	12-Jul-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	15	28	7.90	150*150*150	2340.74	455.00	0.0225	20.22	20.43	20.10
2	15	28	7.80	150*150*150	2311.11	459.00	0.0225	20.40		
3	15	28	7.70	150*150*150	2281.48	465.00	0.0225	20.67		
4	15	28	7.95	150*150*150	2355.56	484.00	0.0225	21.51	19.76	
5	15	28	7.91	150*150*150	2343.70	420.00	0.0225	18.67		
6	15	28	7.80	150*150*150	2311.11	430.00	0.0225	19.11		

Results: 28-days Compressive strength of cement is 20.10 N/mm2

Note:

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